

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/001387 A3

(51) International Patent Classification⁷: **G01C 21/26**

Christian [DE/DE]; Max-Herz-Ring 235, 22159 Hamburg (DE).

(21) International Application Number:

PCT/EP2004/006990

(74) Agent: **WEIGELT, Udo**; Grünecker, Kinkeldey, Stockmair & Schwanhäusser, Maximilianstrasse 58, 80538 München (DE).

(22) International Filing Date: 28 June 2004 (28.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03014394.5 26 June 2003 (26.06.2003) EP

(71) Applicant (for all designated States except US): **HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH** [DE/DE]; Becker-Goering-Str. 16, 76307 Karlsbad (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

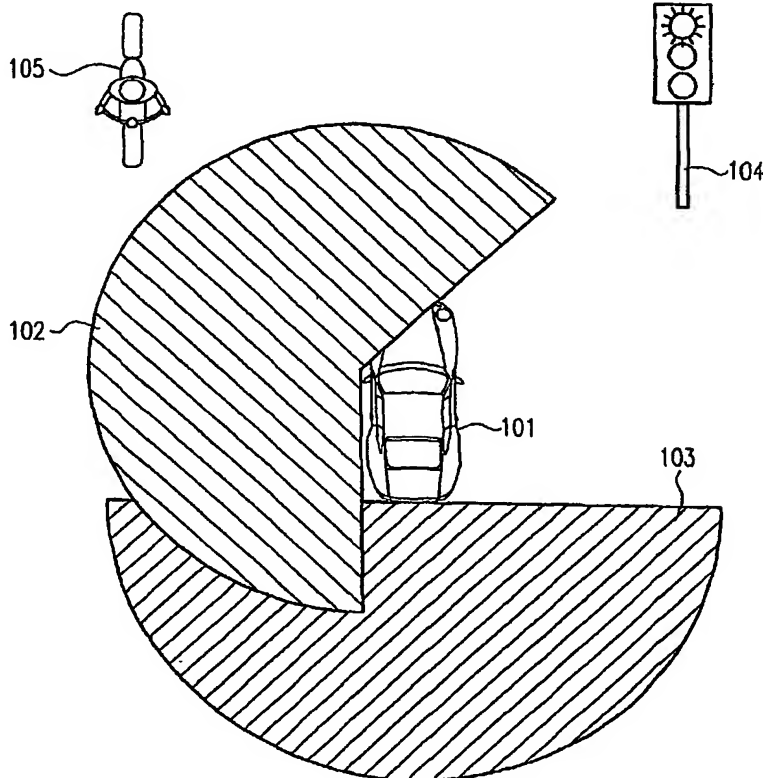
(72) Inventor; and

(75) Inventor/Applicant (for US only): **BRUELLE-DREWS,**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: METHOD FOR ASSISTING NAVIGATION AND NAVIGATION SYSTEM



(57) Abstract: The invention is directed to an method for assisting navigation, comprising automatically determining information on an upcoming maneuver, automatically determining a current position, automatically determining information on an object in the vicinity of the current position, wherein the object is detected by at least one sensor, and processing the maneuver information and the information on the object in the vicinity to determine current combined navigation information.

WO 2005/001387 A3



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*

(88) Date of publication of the international search report:

19 May 2005

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

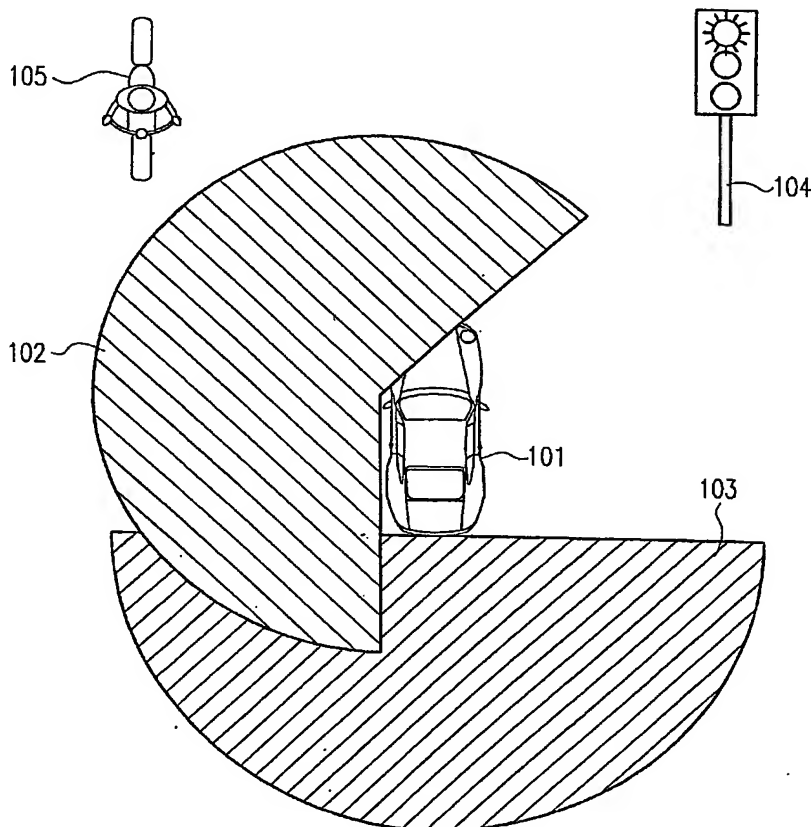
PCT

(10) International Publication Number
WO 2005/001387 A2

- (51) International Patent Classification⁷: **G01C 21/26**
- (21) International Application Number:
PCT/EP2004/006990
- (22) International Filing Date: 28 June 2004 (28.06.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
03014394.5 26 June 2003 (26.06.2003) EP
- (71) Applicant (for all designated States except US): **HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH**
[DE/DE]; Becker-Goering-Str. 16, 76307 Karlsbad (DE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BRUELLE-DREWS, Christian** [DE/DE]; Max-Herz-Ring 235, 22159 Hamburg (DE).
- (74) Agent: **WEIGELT, Udo**; Grünecker, Kinkeldey, Stockmair & Schwanhäusser, Maximilianstrasse 58, 80538 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD FOR ASSISTING NAVIGATION AND NAVIGATION SYSTEM



(57) Abstract: The invention is directed to a method for assisting navigation, comprising automatically determining information on an upcoming maneuver, automatically determining a current position, automatically determining information on an object in the vicinity of the current position, wherein the object is detected by at least one sensor, and processing the maneuver information and the information on the object in the vicinity to determine current combined navigation information.



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *without international search report and to be republished upon receipt of that report*